

Prevention

Goal 1: Reduce incidence of cancer by promoting healthy lifestyles and reducing environmental hazards.

Objective 1 : Decrease the percentage of Missourians who smoke cigarettes												
Measures: Current Smoking		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.1.1	Adults Source: BRFSS	-	-	22.1%	20.6%	23.3%	22.1%	20.8%	19.4%		19.7%	
1.1.2	Youth in grades 6-8 Source: YTS	-	-	4.0%	-	2.4%	-	3.5%	-		2.0%	
1.1.3	Youth in grades 9-12 Source: YRBS	-	-	14.9%	-	11.0%	-	9.2%	-	6.5%	10.0%	
1.1.4	African-American Adults Source: BRFSS	-	-	22.6%	21.2%	26.1%	26.3%	26.9%	22.1%		20.0%	
1.1.5	Annual household income < \$15,000 Source: BRFSS	-	-	38.9%	39.1%	40.7%	44.8%	44.4%	38.3%		30.0%	

Objective 2: Increase the percent of Missourians who are living in communities with a comprehensive smoke free policy												
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.2.1	Source: CTCP	-	-	-	24.0%	-	-	-	50.3%		30.0%	

Objective 3: Decrease the percentage of Missourians who are overweight and obese												
Measures: Obesity		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.3.1	Adults Source: BRFSS	-	-	30.4%	30.2%	32.4%	31.7%	32.5%	35.0%		27.2%	
1.3.2	African-American Adults Source: BRFSS	-	-	38.9%	39.5%	36.9%	39.5%	40.7%	45.3%		35.6%	
1.3.3	High School Youth Source: YRBS	-	-	14.9%	-	13.1%	-	16.6%	-	18.4%	13.8%	

Target Met
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 Little or No Change
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Measures: No leisure time physical activity in the past month		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.3.4	Adults Source: BRFSS	-	-	28.3%	25.0%	27.0%	24.9%	29.2%	26.1%		25.0%	
1.3.5	African-American Women Source: BRFSS	-	-	-	26.8%	-	39.0%	-	40.0%	-	24.0%	

Measure: Individuals who are physically active at least 60 minutes per day on 5 or more days		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.3.6	High School Youth Source: YRBS	-	-	45.4%	-	45.7%	-	46.2%	-	25.3%	50.0%	

Measures: Consumed fruits <1 time per day		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.3.7	Adults Source: BRFSS	-	-	43.1%	-	44.4%	-	39.9%	-		36.0%	
1.3.8	African-American Women Source: BRFSS	-	-	37.5%	-	41.1%	-	38.5%	-		35.0%	
1.3.9	Adults with < high school education Source: BRFSS	-	-	54.2%	-	53.1%	-	47.9%	-		40.0%	

Measures: Not eating fruit one or more times during the past 7 days		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.3.10	High School Students Source: YRBS	-	-	14.3%	-	12.8%	-	13.8%	-	7.3%	11.0%	
1.3.11	Middle School Students Source: YTS	-	-	12.4%	-	13.1%	-	12.3%	-	-	12.0%	

Measures: Consumed vegetables <1 time per day		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.3.12	Adults Source: BRFSS	-	-	24.3%	-	23.3%	-	16.9%	-		15.0%	
1.3.13	African-American Women Source: BRFSS	40.8%	-	43.0%	-	31.1%	-	27.0%	-		25.0%	
1.3.14	Adults with < high school education Source: BRFSS	-	-	35.9%	-	33.1%	-	24.7%	-		20.0%	

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Measures: Not eating vegetables one or more times during the past 7 days		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
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1.3.15	High School Students Source: YRBS	-	-	6.2%	-	6.1%	-	8.3%	-	6.5%	4.1%	
1.3.16	Middle School Students Source: YTS	-	-	9.7%	-	8.8% Data incorrect in 2016-2020 MCAP	-	8.1%	-	-	6.5%	

Objective 4: Increase the percentage of individuals ages 11 - 17 who receive the human papillomavirus (HPV) vaccine according to CDC guidelines												
Measures:		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.4.1	Females who received ≥ 1 HPV vaccine Source: NIS-Teen (age 13-17 years)	-	-	-	47.5%	59.3%	51.6%	62.7%	67.0%		77.0%	
1.4.2	Females who received ≥ 2 HPV vaccine Source: NIS-Teen (age 13-17 years)	-	-	-	36.3%	43.3%	44.7%	50.1%	56.1%		51.2%	
1.4.3	Females ages 15-17 who received ≥ 3 HPV vaccine Source: NIS-Teen (age 13-17 years) discontinued from web site	-	-	-	28.3%	-	-	-	-	-	43.3%	
1.4.4	Males who received ≥ 1 HPV vaccine Source: NIS-Teen (age 13-17 years)	-	-	-	27.9%	44.7%	48.3%	53.1%	56.4%		66.4%	
1.4.5	Males who received ≥ 2 HPV vaccine Source: NIS-Teen (age 13-17 years)	-	-	-	20.1%	33.7%	35.8%	39.0%	36.9%		31.0%	
1.4.6	Males ages 15-17 who received ≥ 3 HPV vaccine* Source: NIS-Teen (age 13-17 years) discontinued from web site	-	-	-	11.3%	-	-	-	-	-	22.8%	

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Objective 5: Decrease the proportion of adolescents who report a sunburn or use of indoor tanning in the previous year											
Measures:	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
1.5.1 Proportion of Missouri adolescents who have had a sunburn in the past 12 months ___% in 2017 to ___% (baseline to be determined) Source: YRBS	-	-	-	-	-	-	53.7%	-	60.3%	50.0%	baseline
1.5.2 Proportion of adolescents reporting indoor tanning (sunlamp, sunbed or tanning booth, but not including a spray-on tan) in the past 12 months ___% in 2017 to ___% (baseline to be determined) Source: YRBS	-	-	-	-	13.3%	-	13.0%	-	15.3%	12.5%	

Early Detection / Screening

Goal 2: Increase the early detection of cancer by promoting the use of evidence-based screening guidelines.

Objective 1: Increase the percentage of women who receive regular breast cancer screening based on nationally recognized guidelines											
Measures: Mammography within the past two years	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
2.1.1 Women 40 and older Source: BRFSS	-	72.9%	-	68.1%	-	70.2%	-	69.4%	-	86.3%	
2.1.2 Women with a household income < \$15,000 Source: BRFSS	-	58.0%	-	56.4%	-	51.8%	-	55.9%	-	77.0%	
2.1.3 Women with a household income between \$15,000 - \$24,999 Source: BRFSS	-	62.8%	-	60.7%	-	61.8%	-	61.6%	-	82.0%	

Objective 2: Increase the percentage of women who receive cervical cancer screenings based on nationally recognized guidelines											
Measures: Pap test within the last 3 years	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
2.2.1 Women 21-65 years Source: Healthy People 2020, US Preventative Services Task Force Recommendations, BRFSS	-	-	-	80.7% <small>Data incorrect in 2016-2020 MCAP</small>	-	78.6%	-	79.8%	-	100.0%	

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Objective 3: Increase the percentage of colorectal cancer screenings for adults 50 and over												
Measures: Colonoscopy		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
2.3.1	Adults 50 and older who have had a colonoscopy in the last 10 years Source: BRFSS	-	60.5%	-	-	-	62.8%	-	62.5%	-	80.0%	
2.3.2	Missourians 50 and older who have had a home blood stool test within the past two years Source: BRFSS	-	12.0%	-	10.0%	-	6.2%	-	11.9%	-	18.0%	

Objective 4: Increase the percentage of men who have discussed with their health care provider the advantages and disadvantages of the Prostate-Specific Antigen (PSA) test to screen for prostate cancer												
Measures: Ever been told by a health care provider about the		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
2.4.1	Advantages of the PSA test Source: BRFSS	-	61.1%	-	58.8%	-	57.70%	-	41.2%	-	70.0%	
2.4.2	Disadvantages of the PSA test Source: BRFSS	-	21.9%	-	21.8%	-	21.20%	-	18.5%	-	30.0%	

Objective 5: Increase low-dose computed tomography (LDCT) lung cancer screenings in the targeted at risk population												
Measure:		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
2.5.1	Annual screening for lung cancer with LDCT in adults aged 55 to 80 years who have a 30 pack-year smoking history and currently smoke or have quit within the past 15 years Source: BRFSS	-	-	-	-	-	-	8.1%	-	BRFSS 2019 to include 4 modules supported thru CDC funds, future years to be supported by states.	10.0%	

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Diagnosis / Treatment

Goal 3: Increase access to evidence-based treatment of cancer

Objective 1: Increase access to evidence-based treatment services by reducing the number of Missourians who are under/uninsured												
Measures: Decrease percentage of		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
3.1.1	Missourians, age 18-64, who are uninsured Source: BRFSS	-	-	18.8%	16.1%	15.1%	13.8%	15.8%	15.5%		10.0%	
3.1.2	Missourians who needed to see a doctor in the past 12 months but could not due to cost Source: BRFSS	-	-	16.1%	13.7%	13.8%	13.4%	13.8%	13.3%		14.9%	
3.1.3	Survivors who report that they did not have health insurance that paid for all or part of their cancer treatment Source: BRFSS	-	N/A	-	5.5%	-	7.1%	-	4.5%	-	8.0%	

Objective 2: Increase the percentage of Missourians with a cancer diagnosis participating in clinical trials												
Measures:		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
3.2.1	Increase the percentage of Missourians with a cancer diagnosis participating in a clinical trials Source: BRFSS	-	-	-	5.5%	-	4.5%	-		-	7.0%	
3.2.2	Establish a baseline number of cancer treatment centers that offer clinical trials in Missouri (Percentage of Missouri hospitals offering clinical trials) Source: Missouri Hospital Association Survey (Provided question to MHA in November 2018)	-	-	-	-	-	-	-	22.6%			

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Objective 3: Increase the percent of cancer patients receiving evidence-based treatment according to National Comprehensive Cancer Network guidelines

Measures: Increase the percent of cancer patients receiving treatment within 30 days from the date of diagnosis:		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
3.3.1	Colon Source: Missouri Cancer Registry	84.1%	84.5%	83.0%	84.9%	81.4%	81.8%				86.4%	
3.3.2	Lung and bronchus Source: Missouri Cancer Registry	50.5%	49.8%	49.4%	48.4%	43.9%	41.3%				49.4%	
3.3.3	Melanoma of the skin (all races combined) Source: Missouri Cancer Registry	86.2%	83.5%	87.4%	89.2%	91.3%	87.9%				91.3%	
3.3.4	Female breast (in situ and invasive combined) Source: Missouri Cancer Registry	66.4%	66.2%	65.4%	62.8%	57.9%	57.8%				65.3%	
3.3.5	Cervix uteri Source: Missouri Cancer Registry	61.1%	53.3%	64.9%	54.6%	56.8%	54.8%				58.7%	

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Survivorship Through End of Life

Goal 4: Assure the highest quality of life possible for cancer survivors and their families, including end-of life transitions

Objective 1: Improve quality of life for cancer survivors, including physical and mental health, and end-of-life transitions.												
Measures:	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status	
4.1.1 Decrease the number of cancer survivors who report having physical pain caused by cancer or cancer treatment Source: BRFSS	-	NA	-	6.3%	-	8.5%	-	9.8%	-	8.0%		
4.1.2 Decrease the percentage of adults aged 18 years and older diagnosed with cancer who reported being kept from usual activities due to poor physical or mental health on 14 or more days of the past 30 days Source: BRFSS	-	28.9%	-	28.8%	-	27.6%	-	32.2%	-	28.0%		
4.1.3 Increase the average number of hospice days per cancer patient in Missouri during the last month of life Source: Dartmouth Atlas of Health Care	-	10	-	-	-	-	Need to order 2017 report - mohospice.org/wp-content/uploads/2016/11/2017-Report-Order-Form.pdf	-	-	14		
4.1.4 Increase the percentage of survivors reporting receipt of a written treatment summary Source: BRFSS	-	-	-	35.0%	-	39.6%	-	44.7%	-	40.5%		

Objective 2: Increase health care provider's education regarding survivorship issues, including end of life, to improve comprehensive cancer care and management

Measures:	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
4.2.1 Increase the percent of cancer survivors receiving instructions about cancer treatment written down or printed Source: BRFSS	-	-	-	69.1%	-	78.9%	-	79.8%	-	72.2%	
4.2.2 Provide one or more professional educational opportunities by 2020 to increase knowledge of comprehensive cancer care and management regarding survivorship issues Source: CCCP (2015: Cancer Summit; 2018: Transportable Physician Orders to Patient Preferences Coalition Workshop; 2019: Prevention Video, Screening Video)	-	-	-	-	1	-	-	1	2	4	



Target Met



Progress Toward Target



Little or No Change



Moving Away from Target



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Objective 3: Increase awareness regarding policies addressing cancer survivorship

Measures:	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Status
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4.3.1	State policies (programs) reviewed and gap analysis completed Source: OOE	-	-	-	-	-	-	-	Complete	-	-	Complete	
4.3.2	Creation of Council on Pallative Care and Quality of Life Source: CCCP	-	-	-	-	-	-	-	-	-	-	Complete	

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